ELSEVIER

1 August 1997

Optics Communications 140 (1997) 353–359

OPTICS COMMUNICATIONS

Author index to volume 140

Abbotto, A., see He, G.S. 140 (1997) 49
Abushagur, M.A.G., see Johnson, E.G. 140 (1997) 6
Akimov, D.A., A.B. Fedotov, N.I. Koroteev, A.N. Naumov, D.A. Sidorov-Biryukov and A.M. Zheltikov, Application of coherent four-wave mixing for two-dimensional mapping of the spatial distribution of excited atoms in a laser-produced plasma 140 (1997) 259
Aoyama, M. and K. Yamakawa, Noise characterization of an all-solid-state mirror-dispersion-controlled 10-fs Ti:sapphire laser 140 (1997) 255
Arrizón, V. and S. Sinzinger, Modified quantization schemes for Fourier-type array generators 140 (1997) 309
Asakura, T., see Ishii, K. 140 (1997) 99

Baldi, P., see El Hadi, K. 140 (1997) 23
Baldo, M., G.E. Town and M. Romagnoli, Generation of highly chirped pulses in a diode-pumped optical fiber laser 140 (1997) 19
Bandyopadhyay, A. and J. Rai, Transfer of non-classical properties in dual channel directional coupler 140 (1997) 41
Benech, P., see Gerard, P. 140 (1997) 128
Bente, E.A.J.M., see Boon-Engering, J.M. 140 (1997) 285
Bernard, J.E., B.G. Whitford and A.A. Madej, A Tm:YAG laser for optical frequency measurements: mixing 148 THz light with CO_2 laser radiation 140 (1997) 45
Bernardo, L.M., Talbot self-imaging in fractional Fourier planes of real and complex orders 140 (1997) 195
Beržanskis, A., A. Matijošius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Conversion of topological charge of optical vortices in a parametric frequency converter 140 (1997) 273
Blow, K.J., see Poustie, A.J. 140 (1997) 184
Bolzinger, J.L., P. Mathey, R. Machet, P. Jullien, J. Mugnier and P. Moretti, Biaxial behaviour of an optical waveguide fabricated by ion implantation in a uniaxial $BaTiO_3$ substrate 140 (1997) 199
Boon-Engering, J.M., W.E. van der Veer, E.A.J.M. Bente and W. Hogervorst, Stabilization of an optical cavity containing a birefringent element 140 (1997) 285
Bramati, A., see Marin, F. 140 (1997) 146
Breuer, D., K. Jürgensen, F. Küppers, A. Mattheus, I. Gabitov and S.K. Turitsyn, Optimal schemes for dispersion compensation of standard monomode fiber based links 140 (1997) 15

Cai, L.Z., see Lu, F. 140 (1997) 204
Calderer, J., see Moreno, M. 140 (1997) 27
Cernusca, M., see Hofer, R. 140 (1997) 242
Chadha, D., Simplified universal dispersion curves for channel waveguides 140 (1997) 207

Chen, H.C., see Lu, F. 140 (1997) 204
Chevallier, R., see Quertemont, E. 140 (1997) 191
Chu, C.H., see Watunyuta, W. 140 (1997) 110
Chu, P.L., B.A. Malomed and G.D. Peng, Pulse propagation through a nonlinear optical amplifier 140 (1997) 289
Chu, S., see Heupel, T. 140 (1997) 281
Cipparrone, G., D. Duca and N.V. Tabiryan, Catastrophes and nonlinear dynamics in the standard geometry of optically induced reorientation of nematic liquid crystals 140 (1997) 266
Corney, J.F., P.D. Drummond and A. Liebman, Quantum noise limits to terabaud communications 140 (1997) 211

De Micheli, M.P., see El Hadi, K. 140 (1997) 23
Deng, X., Y. Li, D. Fan and Y. Qiu, Propagation of paraxial circular symmetric beams in a general optical system 140 (1997) 226
Dinev, S., see Velchev, I. 140 (1997) 77
Dragoman, D. and M. Dragoman, Time–frequency modeling of atomic force microscopy 140 (1997) 220
Dragoman, M., see Dragoman, D. 140 (1997) 220
Dreischuh, A., see Velchev, I. 140 (1997) 77
Drummond, P.D., see Corney, J.F. 140 (1997) 211
Du, K., Y. Liao and P. Loosen, Nd:YAG slab laser end-pumped by laser-diode stacks and its beam shaping 140 (1997) 53
Duca, D., see Cipparrone, G. 140 (1997) 266

El Hadi, K., P. Baldi, M.P. De Micheli, D.B. Ostrowsky, Yu.N. Korkishko, V.A. Fedorov and A.V. Kondrat'ev, Ordinary and extraordinary waveguides realized by reverse proton exchange on $LiTaO_3$ 140 (1997) 23
Ezbiri, A., see Potter, J. 140 (1997) 11

Facchetti, A., see He, G.S. 140 (1997) 49
Fan, D., see Deng, X. 140 (1997) 226
Fedorov, M.V., see Minogin, V.G. 140 (1997) 250
Fedorov, V.A., see El Hadi, K. 140 (1997) 23
Fedotov, A.B., see Akimov, D.A. 140 (1997) 259
Feldhaus, J., E.L. Saldin, J.R. Schneider, E.A. Schneidmiller and M.V. Yurkov, Possible application of X-ray optical elements for reducing the spectral bandwidth of an X-ray SASE FEL 140 (1997) 341
Feller, K.-H., see Malyshev, V.A. 140 (1997) 83
Franco, M.A., H.R. Lange, J.-F. Ripoche, B.S. Prade and A. Mysyrowicz, Characterization of ultra-short pulses by cross-phase modulation 140 (1997) 331
Furmann, B., see Krzykowski, A. 140 (1997) 216

Gabitov, I., see Breuer, D. 140 (1997) 15
Gallagher, H.G., see Qi, X. 140 (1997) 65
Gerard, P., P. Benech, D. Khalil, R. Rimet and S. Tedjini, Towards a full vectorial and modal technique for the analysis of integrated optics structures: the Radiation Spectrum Method (RSM) 140 (1997) 128
Giacobino, E., see Marin, F. 140 (1997) 146
Glaeske, H., see Malyshev, V.A. 140 (1997) 83

Gross, B., see Manassah, J.T. 140 (1997) 70
Gupta, B.D. and D.K. Sharma, Evanescent wave absorption based fiber optic pH sensor prepared by dye doped sol-gel immobilization technique 140 (1997) 32

Haist, T., M. Schönleber and H.J. Tiziani, Computer-generated holograms from 3D-objects written on twisted-nematic liquid crystal displays 140 (1997) 299
Han, T.P.J., see Qi, X. 140 (1997) 65
Hänsch, T.W., see Heupel, T. 140 (1997) 281
Hasegawa, A., see Shimosegawa, M. 140 (1997) 237
He, G.S., L. Yuan, P.N. Prasad, A. Abbotto, A. Facchetti and G.A. Pagani, Two-photon pumped frequency-upconversion lasing of a new blue-green dye material 140 (1997) 49
Healy, S.B., see Janulewicz, K.A. 140 (1997) 165
Henderson, B., see Qi, X. 140 (1997) 65
Heupel, T., M. Weitz, S. Chu and T.W. Hänsch, Cavity enhanced cw stimulated Brillouin scattering in a fused silica plate 140 (1997) 281
Hofer, M., see Hofer, R. 140 (1997) 242
Hofer, R., M. Hofer, G.A. Reider, M. Cernusca and M.H. Ober, Modelocking of a Nd-fiber laser at 920 nm 140 (1997) 242
Hogervorst, W., see Boon-Engering, J.M. 140 (1997) 285
Huot, N., J.M.C. Jonathan, D. Rytz and G. Roosen, Self-pumped phase conjugation in a ring cavity at 1.06 μm in cw and nanosecond regimes using photorefractive $BaTiO_3$:Rh 140 (1997) 296

Ikonić, Z., see Kočinac, S. 140 (1997) 89
Ishii, K., T. Iwai and T. Asakura, Angular polarization properties of dynamic light scattering under influence of enhanced backscattering 140 (1997) 99
Iwai, T., see Ishii, K. 140 (1997) 99

Jabczyński, J.K., Minimum averaged area of asymmetric multimode pumping beam 140 (1997) 1
Janulewicz, K.A., S.B. Healy and G.J. Pert, Modelling of OFI-plasma recombination X-ray lasers 140 (1997) 165
Jarosz, A., see Krzykowski, A. 140 (1997) 216
Johnson, E.G. and M.A.G. Abushagur, Image deconvolution using a micro genetic algorithm 140 (1997) 6
Jonathan, J.M.C., see Huot, N. 140 (1997) 296
Jones, C.K.R.T., see Rubin, J.E. 140 (1997) 93
Jost, V., see Marin, F. 140 (1997) 146
Jullien, P., see Bolzinger, J.L. 140 (1997) 199
Jürgensen, K., see Breuer, D. 140 (1997) 15

Kajoch, A., see Krzykowski, A. 140 (1997) 216
Khalil, D., see Gerard, P. 140 (1997) 128
Koch, R., Self-adaptive optical elements for compensation of thermal lensing effects in diode end-pumped solid state lasers – proposal and preliminary experiments 140 (1997) 158
Kočinac, S., Z. Ikonić and V. Milanović, The influence of permanent dipole moments on second harmonic generation in asymmetric semiconductor quantum wells 140 (1997) 89
Kondrat'ev, A.V., see El Hadi, K. 140 (1997) 23
Korkishko, Yu.N., see El Hadi, K. 140 (1997) 23
Koroteev, N.I., see Akimov, D.A. 140 (1997) 259

Krzykowski, A., B. Furmann, D. Stefańska, A. Jarosz and A. Kajoch, Hyperfine structures in the configuration $4f^3 5d6s$ of the praseodymium atom 140 (1997) 216
Kumar, A., see Thyagarajan, K. 140 (1997) 316
Küppers, F., see Breuer, D. 140 (1997) 15

Labrunie, L., G. Pauliat, J.C. Launay, S. Leidenbach and G. Roosen, Real-time double exposure holographic phase shifting interferometer using a photorefractive crystal 140 (1997) 119
Lange, H.R., see Franco, M.A. 140 (1997) 331
Launay, J.C., see Labrunie, L. 140 (1997) 119
Leidenbach, S., see Labrunie, L. 140 (1997) 119
Letokhov, V.S., see Minogin, V.G. 140 (1997) 250
Li, W., see Lu, F. 140 (1997) 204
Li, Y., see Deng, X. 140 (1997) 226
Liao, Y., see Du, K. 140 (1997) 53
Liebman, A., see Corney, J.F. 140 (1997) 211
Loosen, P., see Du, K. 140 (1997) 53
Lu, F., M.Q. Meng, K.M. Wang, F.X. Wang, W. Li, L.Z. Cai, Y.R. Wang, H.C. Chen and D.Y. Shen, Formation of optical waveguide in KNSBN crystal by low dose MeV H-ion implantation 140 (1997) 204

Machet, R., see Bolzinger, J.L. 140 (1997) 199
Madej, A.A., see Bernard, J.E. 140 (1997) 45
Malomed, B.A., see Chu, P.L. 140 (1997) 289
Malyshev, V.A., H. Glaeske and K.-H. Feller, Effect of exciton–exciton annihilation on optical bistability of a linear molecular aggregate 140 (1997) 83
Manassah, J.T. and B. Gross, Generation of photon echos from large area pulses in doped fibers at cryogenic temperatures 140 (1997) 70
Manning, R.J., see Poustie, A.J. 140 (1997) 184
Marin, F., A. Bramati, V. Jost and E. Giacobino, Demonstration of high sensitivity spectroscopy with squeezed semiconductor lasers 140 (1997) 146
Martínez-Herrero, R. and P.M. Mejías, On the fourth-order spatial characterization of laser beams: new invariant parameter through ABCD systems 140 (1997) 57
Mathey, P., see Bolzinger, J.L. 140 (1997) 199
Matijošius, A., see Beržanskis, A. 140 (1997) 273
Mattheus, A., see Breuer, D. 140 (1997) 15
Mejías, P.M., see Martínez-Herrero, R. 140 (1997) 57
Meng, M.Q., see Lu, F. 140 (1997) 204
Milanović, V., see Kočinac, S. 140 (1997) 89
Minogin, V.G., M.V. Fedorov and V.S. Letokhov, Formation of ultrashort electron pulses on scattering of an electron beam by a standing laser wave of ultrashort duration 140 (1997) 250
Moreno, M. and J. Calderer, Lateral photodetectors on ARROW structures for optical interconnections 140 (1997) 27
Moretti, P., see Bolzinger, J.L. 140 (1997) 199
Mugnier, J., see Bolzinger, J.L. 140 (1997) 199
Musha, M., S. Telada, K. Nakagawa, M. Ohashi and K.-i. Ueda, Measurement of frequency noise spectra of frequency-stabilized LD-pumped Nd:YAG laser by using a cavity with separately suspended mirrors 140 (1997) 323
Mysyrowicz, A., see Franco, M.A. 140 (1997) 331

Nakagawa, K., see Musha, M. 140 (1997) 323
Naumov, A.N., see Akimov, D.A. 140 (1997) 259
Neshev, D., see Velchev, I. 140 (1997) 77
Nishikawa, T. and N. Uesugi, Walk-off and pump energy dependence of transverse beam profiles on traveling-wave parametric generation 140 (1997) 277

Ober, M.H., see Hofer, R. 140 (1997) 242
Ogura, I., see Shimosegawa, M. 140 (1997) 237
Ohashi, M., see Musha, M. 140 (1997) 323
Omatsu, T., see Shimosegawa, M. 140 (1997) 237
Ostrowsky, D.B., see El Hadi, K. 140 (1997) 23

Pagani, G.A., see He, G.S. 140 (1997) 49
Pauliat, G., see Labrunie, L. 140 (1997) 119
Peng, G.D., see Chu, P.L. 140 (1997) 289
Pert, G.J., see Janulewicz, K.A. 140 (1997) 165
Piskarskas, A., see Beržanskis, A. 140 (1997) 273
Potter, J., A. Ezbiri and R.P. Tatam, A broad band signal processing technique for miniature low-finesse Fabry-Pérot interferometric sensors 140 (1997) 11
Poustie, A.J., K.J. Blow and R.J. Manning, All-optical regenerative memory for long term data storage 140 (1997) 184
Prade, B.S., see Franco, M.A. 140 (1997) 331
Prasad, P.N., see He, G.S. 140 (1997) 49

Qi, X., T.P.J. Han, H.G. Gallagher and B. Henderson, Energy upconversion processes in Er^{3+} and Nd^{3+} doped $RETiNbO_6$ crystals 140 (1997) 65
Qiu, Y., see Deng, X. 140 (1997) 226
Quertemont, E. and R. Chevallier, Multi-order diffractive optical elements for achromatic interconnections at 1.30 μm and 1.55 μm 140 (1997) 191

Rai, J., see Bandyopadhyay, A. 140 (1997) 41
Reider, G.A., see Hofer, R. 140 (1997) 242
Rimet, R., see Gerard, P. 140 (1997) 128
Ripoche, J.-F., see Franco, M.A. 140 (1997) 331
Romagnoli, M., see Baldo, M. 140 (1997) 19
Romanenko, V.I. and L.P. Yatsenko, Adiabatic population transfer in the three-level Λ-system: two-photon lineshape 140 (1997) 231
Roosen, G., see Huot, N. 140 (1997) 296
Roosen, G., see Labrunie, L. 140 (1997) 119
Rubin, J.E. and C.K.R.T. Jones, Bifurcations and edge oscillations in the semiconductor Fabry-Pérot interferometer 140 (1997) 93
Rudoy, V.M., see Stuchebryukov, S.D. 140 (1997) 36
Rytz, D., see Huot, N. 140 (1997) 296

Saldin, E.L., see Feldhaus, J. 140 (1997) 341
Sambles, J.R., see Watts, R.A. 140 (1997) 179
Schneider, J.R., see Feldhaus, J. 140 (1997) 341
Schneidmiller, E.A., see Feldhaus, J. 140 (1997) 341

Schönleber, M., see Haist, T. 140 (1997) 299
Sergeev, A.M., E.V. Vanin and F.W. Wise, Stability of passively modelocked lasers with fast saturable absorbers 140 (1997) 61
Sharma, D.K., see Gupta, B.D. 140 (1997) 32
Shen, D.Y., see Lu, F. 140 (1997) 204
Shimosegawa, M., T. Omatsu, A. Hasegawa, M. Tateta and I. Ogura, Transient thermal lensing measurement in a laser diode pumped $Nd_xY_{1-x}Al_3(BO_3)_4$ laser using a holographic shearing interferometer 140 (1997) 237
Sidorov-Biryukov, D.A., see Akimov, D.A. 140 (1997) 259
Sinzinger, S., see Arrizón, V. 140 (1997) 309
Smilgevičius, V., see Beržanskis, A. 140 (1997) 273
Stabinis, A., see Beržanskis, A. 140 (1997) 273
Stefańska, D., see Krzykowski, A. 140 (1997) 216
Stuchebryukov, S.D. and V.M. Rudoy, Attenuated total reflection spectra under conditions of weak absorption: physical nature 140 (1997) 36

Tabiryan, N.V., see Cipparrone, G. 140 (1997) 266
Tatam, R.P., see Potter, J. 140 (1997) 11
Tateta, M., see Shimosegawa, M. 140 (1997) 237
Tedjini, S., see Gerard, P. 140 (1997) 128
Telada, S., see Musha, M. 140 (1997) 323
Thyagarajan, K., M. Vaya and A. Kumar, Coupled mode analysis to study cascading in the QPM Cerenkov regime in waveguides 140 (1997) 316
Tiziani, H.J., see Haist, T. 140 (1997) 299
Tournois, P., Acousto-optic programmable dispersive filter for adaptive compensation of group delay time dispersion in laser systems 140 (1997) 245
Town, G.E., see Baldo, M. 140 (1997) 19
Turitsyn, S.K., see Breuer, D. 140 (1997) 15

Ueda, K.-i., see Musha, M. 140 (1997) 323
Uesugi, N., see Nishikawa, T. 140 (1997) 277

Van der Veer, W.E., see Boon-Engering, J.M. 140 (1997) 285
Vanin, E.V., see Sergeev, A.M. 140 (1997) 61
Vaya, M., see Thyagarajan, K. 140 (1997) 316
Vdovin, G., Quick focusing of imaging optics using micromachined adaptive mirrors 140 (1997) 187
Velchev, I., A. Dreischuh, D. Neshev and S. Dinev, Multiple-charged optical vortex solitons in bulk Kerr media 140 (1997) 77

Wang, F.X., see Lu, F. 140 (1997) 204
Wang, K.M., see Lu, F. 140 (1997) 204
Wang, Y.R., see Lu, F. 140 (1997) 204
Watts, R.A. and J.R. Sambles, Reflection gratings as polarization converters 140 (1997) 179
Watunyuta, W. and C.H. Chu, Voronoi tessellation-based spatial domain analysis of digital halftoning methods 140 (1997) 110
Weitz, M., see Heupel, T. 140 (1997) 281
Whitford, B.G., see Bernard, J.E. 140 (1997) 45
Wise, F.W., see Sergeev, A.M. 140 (1997) 61

Yamakawa, K., see Aoyama, M. 140 (1997) 255
Yatsenko, L.P., see Romanenko, V.I. 140 (1997) 231
Yuan, L., see He, G.S. 140 (1997) 49
Yurkov, M.V., see Feldhaus, J. 140 (1997) 341

Zheltikov, A.M., see Akimov, D.A. 140 (1997) 259

ELSEVIER

1 August 1997

Optics Communications 140 (1997) 360–363

OPTICS COMMUNICATIONS

Subject index to volume 140

Propagation, diffraction and scattering

J.K. Jabczyński, Minimum averaged area of asymmetric multimode pumping beam 1

K. Ishii, T. Iwai and T. Asakura, Angular polarization properties of dynamic light scattering under influence of enhanced backscattering 99

R.A. Watts and J.R. Sambles, Reflection gratings as polarization converters 179

Optical information, image formation and analysis, optical computing

E.G. Johnson and M.A.G. Abushagur, Image deconvolution using a micro genetic algorithm 6

J. Potter, A. Ezbiri and R.P. Tatam, A broad band signal processing technique for miniature low-finesse Fabry-Pérot interferometric sensors 11

W. Watunyuta and C.H. Chu, Voronoi tessellation-based spatial domain analysis of digital halftoning methods 110

L. Labrunie, G. Pauliat, J.C. Launay, S. Leidenbach and G. Roosen, Real-time double exposure holographic phase shifting interferometer using a photorefractive crystal 119

A.J. Poustie, K.J. Blow and R.J. Manning, All-optical regenerative memory for long term data storage 184

G. Vdovin, Quick focusing of imaging optics using micromachined adaptive mirrors 187

E. Quertemont and R. Chevallier, Multi-order diffractive optical elements for achromatic interconnections at 1.30 μm and 1.55 μm 191

L.M. Bernardo, Talbot self-imaging in fractional Fourier planes of real and complex orders 195

T. Haist, M. Schönleber and H.J. Tiziani, Computer-generated holograms from 3D-objects written on twisted-nematic liquid crystal displays 299

V. Arrizón and S. Sinzinger, Modified quantization schemes for Fourier-type array generators 309

Optical communications

D. Breuer, K. Jürgensen, F. Küppers, A. Mattheus, I. Gabitov and S.K. Turitsyn, Optimal schemes for dispersion compensation of standard monomode fiber based links 15

M. Baldo, G.E. Town and M. Romagnoli, Generation of highly chirped pulses in a diode-pumped optical fiber laser 19

K. El Hadi, P. Baldi, M.P. De Micheli, D.B. Ostrowsky, Yu.N. Korkishko, V.A. Fedorov and A.V. Kondrat'ev, Ordinary and extraordinary waveguides realized by reverse proton exchange on $LiTaO_3$ 23

M. Moreno and J. Calderer, Lateral photodetectors on ARROW structures for optical interconnections 27

Ph. Gerard, P. Benech, D. Khalil, R. Rimet and S. Tedjini, Towards a full vectorial and modal technique for the analysis of integrated optics structures: the Radiation Spectrum Method (RSM) 128

J.L. Bolzinger, P. Mathey, R. Machet, P. Jullien, J. Mugnier and P. Moretti, Biaxial behaviour of an optical waveguide fabricated by ion implantation in a uniaxial $BaTiO_3$ substrate 199

F. Lu, M.Q. Meng, K.M. Wang, F.X. Wang, W. Li, L.Z. Cai, Y.R. Wang, H.C. Chen and D.Y. Shen, Formation of optical waveguide in KNSBN crystal by low dose MeV H-ion implantation 204

D. Chadha, Simplified universal dispersion curves for channel waveguides 207

J.F. Corney, P.D. Drummond and A. Liebman, Quantum noise limits to terabaud communications 211

K. Thyagarajan, M. Vaya and A. Kumar, Coupled mode analysis to study cascading in the QPM Cerenkov regime in waveguides 316

Atomic, molecular and plasma physics

A. Krzykowski, B. Furmann, D. Stefańska, A. Jarosz and A. Kajoch, Hyperfine structures in the configuration $4f^3\,5d\,6s$ of the praseodymium atom 216

Condensed matter

B.D. Gupta and D.K. Sharma, Evanescent wave absorption based fiber optic pH sensor prepared by dye doped sol-gel immobilization technique 32

S.D. Stuchebryukov and V.M. Rudoy, Attenuated total reflection spectra under conditions of weak absorption: physical nature 36

D. Dragoman and M. Dragoman, Time–frequency modeling of atomic force microscopy 220

Quantum optics

A. Bandyopadhyay and J. Rai, Transfer of non-classical properties in dual channel directional coupler 41

F. Marin, A. Bramati, V. Jost and E. Giacobino, Demonstration of high sensitivity spectroscopy with squeezed semiconductor lasers 146

X. Deng, Y. Li, D. Fan and Y. Qiu, Propagation of paraxial circular symmetric beams in a general optical system 226

V.I. Romanenko and L.P. Yatsenko, Adiabatic population transfer in the three-level Λ-system: two-photon lineshape 231

Lasers

J.E. Bernard, B.G. Whitford and A.A. Madej, A Tm:YAG laser for optical frequency measurements: mixing 148 THz light with CO_2 laser radiation 45

G.S. He, L. Yuan, P.N. Prasad, A. Abbotto, A. Facchetti and G.A. Pagani, Two-photon pumped frequency-upconversion lasing of a new blue-green dye material 49

K. Du, Y. Liao and P. Loosen, Nd:YAG slab laser end-pumped by laser-diode stacks and its beam shaping 53

R. Martínez-Herrero and P.M. Mejías, On the fourth-order spatial characterization of laser beams: new invariant parameter through ABCD systems 57

A.M. Sergeev, E.V. Vanin and F.W. Wise, Stability of passively modelocked lasers with fast saturable absorbers 61

X. Qi, T.P.J. Han, H.G. Gallagher and B. Henderson, Energy upconversion processes in Er^{3+} and Nd^{3+} doped $RETiNbO_6$ crystals 65

R. Koch, Self-adaptive optical elements for compensation of thermal lensing effects in diode end-pumped solid state lasers – proposal and preliminary experiments 158

K.A. Janulewicz, S.B. Healy and G.J. Pert, Modelling of OFI-plasma recombination X-ray lasers 165

M. Shimosegawa, T. Omatsu, A. Hasegawa, M. Tateta and I. Ogura, Transient thermal lensing measurement in a laser diode pumped $Nd_xY_{1-x}Al_3(BO_3)_4$ laser using a holographic shearing interferometer 237

R. Hofer, M. Hofer, G.A. Reider, M. Cernusca and M.H. Ober, Modelocking of a Nd-fiber laser at 920 nm 242

P. Tournois, Acousto-optic programmable dispersive filter for adaptive compensation of group delay time dispersion in laser systems 245

V.G. Minogin, M.V. Fedorov and V.S. Letokhov, Formation of ultrashort electron pulses on scattering of an electron beam by a standing laser wave of ultrashort duration 250

M. Aoyama and K. Yamakawa, Noise characterization of an all-solid-state mirror-dispersion-controlled 10-fs Ti:sapphire laser 255

M. Musha, S. Telada, K. Nakagawa, M. Ohashi and K.-i. Ueda, Measurement of frequency noise spectra of frequency-stabilized LD-pumped Nd:YAG laser by using a cavity with separately suspended mirrors 323

M.A. Franco, H.R. Lange, J.-F. Ripoche, B.S. Prade and A. Mysyrowicz, Characterization of ultra-short pulses by cross-phase modulation 331

J. Feldhaus, E.L. Saldin, J.R. Schneider, E.A. Schneidmiller and M.V. Yurkov, Possible application of X-ray optical elements for reducing the spectral bandwidth of an X-ray SASE FEL 341

Nonlinear optics

J.T. Manassah and B. Gross, Generation of photon echos from large area pulses in doped fibers at cryogenic temperatures 70

I. Velchev, A. Dreischuh, D. Neshev and S. Dinev, Multiple-charged optical vortex solitons in bulk Kerr media 77

V.A. Malyshev, H. Glaeske and K.-H. Feller, Effect of exciton–exciton annihilation on optical bistability of a linear molecular aggregate 83

S. Kočinac, Z. Ikonić and V. Milanović, The influence of permanent dipole moments on second harmonic generation in asymmetric semiconductor quantum wells 89

J.E. Rubin and C.K.R.T. Jones, Bifurcations and edge oscillations in the semiconductor Fabry-Pérot interferometer 93

D.A. Akimov, A.B. Fedotov, N.I. Koroteev, A.N. Naumov, D.A. Sidorov-Biryukov and A.M. Zheltikov, Application of coherent four-wave mixing for two-dimensional mapping of the spatial distribution of excited atoms in a laser-produced plasma 259

G. Cipparrone, D. Duca and N.V. Tabiryan, Catastrophes and nonlinear dynamics in the standard geometry of optically induced reorientation of nematic liquid crystals 266

A. Beržanskis, A. Matijošius, A. Piskarskas, V. Smilgevičius and A. Stabinis, Conversion of topological charge of optical vortices in a parametric frequency converter 273

T. Nishikawa and N. Uesugi, Walk-off and pump energy dependence of transverse beam profiles on traveling-wave parametric generation 277

T. Heupel, M. Weitz, S. Chu and T.W. Hänsch, Cavity enhanced cw stimulated Brillouin scattering in a fused silica plate 281

J.M. Boon-Engering, W.E. van der Veer, E.A.J.M. Bente and W. Hogervorst, Stabilization of an optical cavity containing a birefringent element 285

P.L. Chu, B.A. Malomed and G.D. Peng, Pulse propagation through a nonlinear optical amplifier 289

N. Huot, J.M.C. Jonathan, D. Rytz and G. Roosen, Self-pumped phase conjugation in a ring cavity at 1.06 μm in cw and nanosecond regimes using photorefractive $BaTiO_3$:Rh 296